

Title (en)  
Offset zigzag belt structure for a pneumatic tire

Title (de)  
Versetzte Zickzackgürtelstruktur für Luftreifen

Title (fr)  
Structure de courroie en zigzag décalé pour pneu

Publication  
**EP 2202094 A1 20100630 (EN)**

Application  
**EP 09178634 A 20091210**

Priority  
US 33954608 A 20081219

Abstract (en)  
A pneumatic tire (10) such as a radial truck tire is described. The tire (10) has a carcass (31) and a belt reinforcing structure (40), the belt reinforcing structure (40) comprising a first zigzag belt layer (41) having a first amplitude or layer width and a first wavelength and a second zigzag belt layer (42) having a second amplitude or layer width and a second wavelength, the first wavelength of the first zigzag layer (41) being out of phase with the second wavelength of the second zigzag layer (42).

IPC 8 full level  
**B60C 9/26** (2006.01)

CPC (source: EP US)  
**B60C 9/263** (2013.01 - EP US); **B60C 2009/2025** (2013.01 - EP); **B60C 2200/06** (2013.01 - EP US)

Citation (applicant)  
• EP 0332449 A2 19890913 - BRIDGESTONE CORP [JP]  
• EP 1477333 A1 20041117 - BRIDGESTONE CORP [JP]  
• EP 1518666 A2 20050330 - GOODYEAR TIRE & RUBBER [US]

Citation (search report)  
• [X] EP 0332449 A2 19890913 - BRIDGESTONE CORP [JP]  
• [X] EP 1477333 A1 20041117 - BRIDGESTONE CORP [JP]  
• [I] EP 1518666 A2 20050330 - GOODYEAR TIRE & RUBBER [US]

Cited by  
CN102971158A; WO2012004238A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2202094 A1 20100630; EP 2202094 B1 20130116**; BR PI0905061 A2 20110208; BR PI0905061 B1 20201006; US 2010154965 A1 20100624

DOCDB simple family (application)  
**EP 09178634 A 20091210**; BR PI0905061 A 20091214; US 33954608 A 20081219